

**AMENDMENTS TO THE CLAIMS:**

*This listing of claims will replace all prior versions, and listings, of claims in the application:*

1. (Currently Amended) A method of determining whether to accept an incoming Internet Protocol (IP) telephone call over an Internet Protocol (IP) network, the method comprising the acts of:

- A) receiving an incoming call at an IP telephony gateway and, at the IP telephony gateway, multiplexing packets from multiple calls including the incoming call into a single packet,
- B) reading at least one current performance indicator value provided by a monitoring mechanism at the IP telephony gateway for monitoring the performance quality of a plurality of ongoing calls, the monitoring mechanism being used instead of or as a supplement to a RTCP mechanism, and
- C) the IP telephony gateway determining if the incoming call is to be accepted or rejected based on said at least one current performance indicator value.

2. (Currently Amended) A method according to claim 1, wherein the monitoring mechanism is also comprises the RTCP mechanism.

3. (Currently Amended) A method according to claim 1, wherein said at least one current performance indicator value is obtained from statistics collected from a the plurality of ongoing calls.

4. (Previously Presented) A method according to claim 1, wherein said at least one current performance indicator value indicates one of (1) a number of lost packets and (2) packet interarrival jitter.

5. (Previously Amended) A method according to claim 1, wherein the determining act C) is performed by checking if said at least one current performance indicator value fulfils a predetermined threshold condition.

6. (Previously Amended) A method according to claim 5, wherein the threshold condition comprises at least one threshold value, and that the determining act C) is performed by comparing said at least one current performance indicator value with the at least one threshold value.

7. (Previously Amended) A method according to claim 5, wherein a function of said at least one current performance indicator value is formed and that the determining act C) is performed by checking if the formed function fulfils the threshold condition.

8. (Previously Amended) A system for determining whether to accept an incoming Internet Protocol (IP) telephone call in an IP telephony gateway for transmission over an Internet Protocol (IP) network, the system comprising:

- means at an IP telephony gateway for receiving an incoming call,
- means at an IP telephony gateway for multiplexing packets from multiple calls including the incoming call into a single packet,
- means for reading at least one current performance indicator value provided by a monitoring mechanism at the IP telephony gateway for monitoring the performance quality of a plurality of ongoing calls, the monitoring mechanism being used instead of or as a supplement to a RTCP mechanism,
- wherein the IP telephony gateway is arranged to determine if the incoming call is to be accepted or rejected based on said at least one current performance indicator value.

9. (Currently Amended) A system according to claim 8, wherein the monitoring mechanism ~~is also comprises the~~ RTCP mechanism.

10. (Currently Amended) A system according to claim 8, wherein said at least one current performance indicator value is obtained from statistics collected from ~~a~~ the plurality of ongoing calls.

11. (Previously Presented) A system according to claim 8, wherein said at least one current performance indicator value indicates one of (1) a number of lost packets and (2) packet interarrival jitter.

12. (Previously Presented) A system according to claim 8, the system further comprising means for checking if said at least one current performance indicator value fulfils a predetermined threshold condition.

13. (Previously Presented) A system according to claim 12, wherein the threshold condition comprises at least one threshold value, and that the system further comprises means for comparing said at least one current performance indicator value with the at least one threshold value.

14. (Previously Presented) A system according to claim 12, the system further comprising:

- means for forming a function of said at least one current performance indicator value, and
- means for checking if the formed function fulfils the threshold condition.

15. (Currently Amended) A computer program for determining whether to accept an incoming Internet Protocol (IP) telephone call over an Internet Protocol (IP) network, wherein the computer program, stored on computer-readable media and comprising instructions which, when run on a computer comprising an IP telephony gateway, executes the acts of:

- determining if the incoming call is to be accepted based on said at least one current performance indicator value provided by a monitoring mechanism at the IP telephony gateway for monitoring the performance quality of a plurality of ongoing calls, the monitoring mechanism being used instead of or as a supplement to a RTCP mechanism, and
- output a signal indicating the result of said determining act.

16. (Currently Amended) A computer program according to claim 15, wherein the monitoring mechanism ~~is also~~ comprises the RTCP mechanism.

17. (Previously Presented) A computer program according to claim 15, wherein said at least one current performance indicator value is obtained from statistics collected from a plurality of ongoing calls.

18. (Previously Presented) A computer program according to claim 15, wherein said at least one current performance indicator value indicates one of (1) a number of lost packets and (2) packet interarrival jitter.

19. (Previously Amended) A computer program according to claim 15, wherein the determining act is executed by checking if said at least one current performance indicator value fulfils a predetermined threshold condition.

20. (Previously Amended) A computer program according to claim 19, wherein the threshold condition comprises at least one threshold value, and that the determining act is executed by comparing said at least one current performance indicator value with the at least one threshold value.

21. (Previously Amended) A computer program according to claim 19, wherein a function of said at least one current performance indicator value is formed and that the determining act is executed by checking if the formed function fulfils the threshold condition.